

Comparisons of Job Characteristics

Focus Occupation: Environmental Science Teachers, Postsecondary (25-1053)
Associated Occupation: Environmental Scientists and Specialists, Including Health (19-2041)

Compare Knowledge
 Compare Skills
 Compare Abilities
 Compare Detailed Work Activities
 Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Environmental Science Teachers, Postsecondary (25-1053)

Associated Occupation: Environmental Scientists and Specialists, Including Health (19-2041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	9.2	15.5	16.6	0	Current knowledge level may be sufficient
Chemistry	4.8	14.9	16.1	0	Current knowledge level may be sufficient
Biology	3.7	14.8	18.9	>>	Current knowledge level is likely more than sufficient
Law and Government	5.9	13.5	6.7	<<	Extensive education and/or training may be required
Geography	3.9	12.7	15.1	>	Current knowledge level is likely sufficient
Engineering and Technology	5.7	12.1	10.1	<	Expanded education and/or training may be required
Physics	4.3	10.5	11.4	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Environmental Science Teachers, Postsecondary (25-1053)

Associated Occupation: Environmental Scientists and Specialists, Including Health (19-2041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reading Comprehension	10.7	16.1	17.8	>	Skill level is likely sufficient
Science	4.5	15.7	15.1	0	Current skill level may be sufficient
Writing	9.2	14.4	17.0	>	Skill level is likely sufficient
Complex Problem Solving	9.1	13.4	11.6	<	A higher skill level may be required
Judgment and Decision Making	9.4	13.1	12.3	0	Current skill level may be sufficient

Active Learning	8.7	13.0	14.2	0	Current skill level may be sufficient
Mathematics	6.2	12.2	8.3	<<	Extensive development of skills in this area may be required
Coordination	9.1	11.8	9.6	<	A higher skill level may be required
Learning Strategies	7.2	11.7	13.9	>	Skill level is likely sufficient
Systems Analysis	6.5	10.6	10.1	0	Current skill level may be sufficient
Operations Analysis	5.0	9.3	9.1	0	Current skill level may be sufficient
Programming	2.2	6.3	1.3	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 89			
Focus Occupation: Environmental Science Teachers, Postsecondary (25-1053) Associated Occupation: Environmental Scientists and Specialists, Including Health (19-2041)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Inductive Reasoning	10.2	16.5	13.8	<	Some improvement in abilities may be required
Written Comprehension	11.0	16.3	17.9	0	Current ability level may be sufficient
Problem Sensitivity	11.1	15.8	10.2	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	15.1	13.8	0	Current ability level may be sufficient
Written Expression	9.8	14.4	17.6	>	Current ability level is likely sufficient
Category Flexibility	9.0	13.0	9.7	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	12.9	10.0	<<	Extensive improvement in abilities may be required
Mathematical Reasoning	6.3	12.2	7.5	<<	Extensive improvement in abilities may be required
Number Facility	6.3	11.9	5.3	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	11.6	6.1	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 85
Focus Occupation: Environmental Science Teachers, Postsecondary (25-1053) Associated Occupation: Environmental Scientists and Specialists, Including Health (19-2041)		
Work Activities	Exclusivity of Activity	
Advise governmental or industrial personnel	28	
Analyze scientific research data or investigative findings	27	

Conduct laboratory research or experiments	57
Direct and coordinate scientific research or investigative studies	27
Follow safe waste disposal procedures	50
Use chemical testing or analysis procedures	54
Use hazardous materials information	35
Use knowledge of environmental laws and regulations	76
Use library or online Internet research techniques	21
Use pollution control techniques	62
Write scholarly or technical research papers	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.